

## EAST Search History

| Ref # | Hits    | Search Query  | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|---------|---|---|------------------|---------|------------------|
| S1    | 14113   | snapshot  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2005/11/09 18:44 |
| S2    | 1247    | (711/162).CCLS.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2005/11/09 18:45 |
| S4    | 138     | ((point adj in adj time) or<br>(point-in-time)) adj copy  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2005/11/09 18:45 |
| S5    | 8683117 | volume or target or extents or<br>redundancy or level or background<br>or copy or source or target or partial | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/04/26 14:19 |
| S6    | 559167  | indicator   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2005/11/09 18:47 |
| S7    | 271     | (S1 or S4) and S2   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2005/11/09 20:03 |
| S8    | 26036   | S5 adj2 S6  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2005/11/09 18:47 |
| S9    | 51      | S7 and S6   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2005/11/09 18:48 |

## EAST Search History

|     |       |   |   |    |     |                  |
|-----|-------|---|---|----|-----|------------------|
| S10 | 3     | S8 and S7   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/11/09 18:48 |
| S11 | 422   | (711/161).CCLS.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/09 19:37 |
| S12 | 1278  | (707/204).CCLS.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/09 19:38 |
| S13 | 1900  | (711/114).CCLS.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/09 19:40 |
| S15 | 16    | (("5649152") or ("5790773") or<br>("5832222") or ("5835953") or<br>("5845295") or ("6038639") or<br>("6058054") or ("6073209") or<br>("6078932") or ("6081875") or<br>("6105030") or ("6119208") or<br>("6182198") or ("6189079") or<br>("6212531") or ("6282610")).PN. | USPAT   | OR | OFF | 2005/11/10 10:37 |
| S16 | 12684 | metadata  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/11/09 20:02 |
| S17 | 2282  | S2 or S12   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/11/09 20:02 |
| S18 | 289   | S17 and S16   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/11/09 20:02 |

## EAST Search History

|     |      |                    |   |    |     |                  |
|-----|------|--------------------|---|----|-----|------------------|
| S19 | 203  | (S1 or S4) and S12 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/11/09 20:04 |
| S20 | 4    | S8 and S19         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/11/09 20:04 |
| S21 | 134  | snapshot adj set   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/11/10 11:29 |
| S22 | 1251 | (711/162).CCLS.    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/10 11:32 |
| S23 | 14   | S21 and S22        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/11/10 11:59 |
| S24 | 1903 | 711/114.ccls.      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/11/10 13:13 |
| S25 | 422  | (711/161).CCLS.    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/10 13:14 |
| S26 | 1279 | (707/204).CCLS.    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/10 13:14 |

## EAST Search History

|     |      |                                |   |    |     |                  |
|-----|------|--------------------------------|---|----|-----|------------------|
| S27 | 4044 | S22 or S24 or S25 or S26       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/11/10 13:14 |
| S28 | 26   | S21 and S27                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/11/10 13:38 |
| S30 | 2    | ("6948038").PN.                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/10 13:24 |
| S31 | 2    | ("6826666").PN.                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/10 13:38 |
| S32 | 343  | "auto select" or "auto-select" | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/04/26 14:20 |
| S33 | 1424 | (711/162).CCLS.                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/04/26 14:20 |
| S34 | 2120 | 711/114.ccls.                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/04/26 14:20 |
| S35 | 476  | (711/161).CCLS.                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/04/26 14:20 |

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|     |      |   |   |    |     |                  |
|-----|------|---|---|----|-----|------------------|
| S36 | 1439 | (707/204).CCLS.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/04/26 14:20 |
| S37 | 4539 | S33 or S34 or S35 or S36  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/04/26 14:20 |
| S38 | 4539 | S37   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/04/26 14:20 |
| S39 | 3    | S32 and S38   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/04/26 14:35 |
| S40 | 2    | S32 adj indicator   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/04/26 14:38 |
| S41 | 4    | "fast replication operation"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/04/26 15:06 |
| S42 | 24   | ("5337275"   "5357475"   "5455944"<br>  "5457658"   "5471604"  <br>"5561786"   "5581723"   "5740395"<br>  "5813042"   "5822781"  <br>"5930815"   "5933834"   "5933845"<br>  "6023744"   "6038636"  <br>"6076148"   "6128630"   "6145051"<br>  "6223308"   "6247024"  <br>"6256642"   "6324631"   "6329985"<br>  "6792518").PN. OR ("7032090").<br>URPN. | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2006/04/26 14:41 |

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|     |         |                             |   |    |    |                  |
|-----|---------|-----------------------------|---|----|----|------------------|
| S43 | 25      | "fast replication"          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/26 16:56 |
| S44 | 152     | snapshot adj set            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/26 15:06 |
| S45 | 2       | S44 and S43                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/26 15:06 |
| S46 | 1       | "background copy indicator" | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/26 16:56 |
| S47 | 4630394 | indicat\$3                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/26 16:56 |
| S48 | 4014266 | background                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/26 16:57 |
| S49 | 626354  | copy replicate duplicate    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/26 16:57 |
| S50 | 20      | S47 near2 S48 near2 S49     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/26 16:59 |

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|     |       |                              |   |    |    |                  |
|-----|-------|------------------------------|---|----|----|------------------|
| S51 | 15655 | snapshot                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/26 16:57 |
| S52 | 1     | S50 and S51                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/26 16:57 |
| S53 | 1     | S50 and S37                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/26 16:59 |
| S54 | 56    | S47 near5 S48 near5 S49      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/26 16:59 |
| S55 | 6     | S54 and S37                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/26 17:01 |
| S56 | 103   | S51 near6 background         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/26 17:02 |
| S57 | 11    | S56 and S37                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/26 17:44 |
| S58 | 1     | "redundancy level indicator" | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/26 17:46 |

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|     |        |  |   |    |    |                  |
|-----|--------|--|---|----|----|------------------|
| S59 | 604108 | RAID indicator                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/26 17:46 |
| S60 | 5      | RAID adj indicator                         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/26 17:47 |
| S61 | 0      | RAID adj level adj indicator               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/26 17:46 |
| S62 | 0      | raid near5 level near5 indicator           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/26 17:47 |
| S63 | 74     | raid near5 level near5 indicat\$3          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/26 18:05 |
| S64 | 14     | S63 and S51                                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/26 17:48 |
| S65 | 85     | redundancy near5 level near5<br>indicat\$3 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/26 17:55 |
| S66 | 14     | S65 and S51 not S64                        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/26 18:04 |

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|     |      |  |   |    |     |                  |
|-----|------|--|---|----|-----|------------------|
| S67 | 2    | (S63 or S65) with S51  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/04/26 18:04 |
| S68 | 26   | target with volume with select\$2 with (auto automatically)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/04/27 10:38 |
| S69 | 2    | ("20030046270").PN.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/04/26 18:11 |
| S70 | 239  | target with volume with (auto automatically "auto-selected") | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/04/27 14:02 |
| S72 | 26   | target with volume with select\$2 with (auto automatically)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/04/27 10:39 |
| S73 | 213  | S70 not S72  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/04/27 10:39 |
| S74 | 1428 | (711/162).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/04/27 10:39 |
| S75 | 2123 | 711/114.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/04/27 10:39 |

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|     |         |   |   |    |     |                  |
|-----|---------|---|---|----|-----|------------------|
| S76 | 476     | (711/161).CCLS.                           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/04/27 10:39 |
| S77 | 1439    | (707/204).CCLS.                           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/04/27 10:39 |
| S78 | 4546    | S74 or S75 or S76 or S77                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/04/27 10:39 |
| S79 | 9       | S73 and S78                               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/04/27 11:08 |
| S80 | 4825181 | pick picked select selected chosen chose  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/04/27 11:09 |
| S81 | 1922    | S80 with target with (auto automatically) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/04/27 12:03 |
| S82 | 1       | S81 with snapshot                         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/04/27 11:10 |
| S83 | 37      | S81 and snapshot                          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/04/27 11:10 |

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|     |       |   |  |    |    |                  |
|-----|-------|---|--|----|----|------------------|
| S84 | 7547  | S80 with target with (manual or manually or user) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/04/27 12:04 |
| S85 | 686   | S81 and S84                                       | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/04/27 12:05 |
| S86 | 10    | S85 and S78                                       | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/04/27 13:43 |
| S87 | 0     | automatically adj "or" adj manually adj select    | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/04/27 13:45 |
| S88 | 3     | S70 with indicator                                | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/04/27 13:44 |
| S90 | 0     | S70 with choose                                   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/04/27 13:45 |
| S92 | 2     | S70 with chosen                                   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/04/27 13:45 |
| S93 | 19751 | target with (auto automatically "auto-selected")  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/04/27 13:46 |

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|     |      |  |   |    |    |                  |
|-----|------|--|---|----|----|------------------|
| S94 | 1371 | S93 with (manual or manually)                                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/27 13:46 |
| S95 | 39   | S94 and ("711".clas. "707".clas.)                            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/27 13:47 |
| S96 | 50   | backup with volume with (auto automatically "auto-selected") | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/27 14:02 |
| S97 | 17   | S96 and S78  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/27 14:02 |